



USER'S MANUAL

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1. Getting started

Thank You very much for purchasing DitoGear™ PowerBox 75. We hope that the device will meet your expectations helping you in your film work.

This manual includes hardware instructions for DitoGear™ PowerBox 75. The device may be used to power one or more of DitoGear™ motion control devices as well as a vast range of 3rd party products and accessories.

Please follow the instructions in this manual to learn how to get the most of DitoGear™ PowerBox 75.

Please ensure to carefully read the safety instructions and precautions contained in this manual prior to the first use of the device.

Should you need any assistance or support do not hesitate to contact us at support@ditogear.com.

Product version information

This manual refers to DitoGear™ PowerBox 75 hardware and firmware version dated Aug 2013.

Latest product manuals can always be found at: www.ditogear.com/user-manuals

2. Getting to know the DitoGear™ PowerBox 75

At a glance

DitoGear™ PowerBox 75 is a high-capacity, 9-channel and 2 USB regulated DC power supply for DitoGear™ devices and 3rd party equipment capable of delivering maximum 20A current at capacity of up to 75Ah and output voltages up to 12V.

Weather resistance notes

The DitoGear™ PowerBox 75 electronics is protected by a sealed housing. It is weather resistant therefore it can work under standard conditions including high humidity, light rain or light show and low temperatures. However, it is not fully water resistant and should not be used under extreme conditions.

Design

The PowerBox consists of the following elements:

- 1 Front panel with a cover
- 2 The housing
- 3 A 110/230V AC power input
- 4 Side handles
- 5 Display
- 6 Backlight on/ battery switch menu button
- 7 Battery (inside the housing)

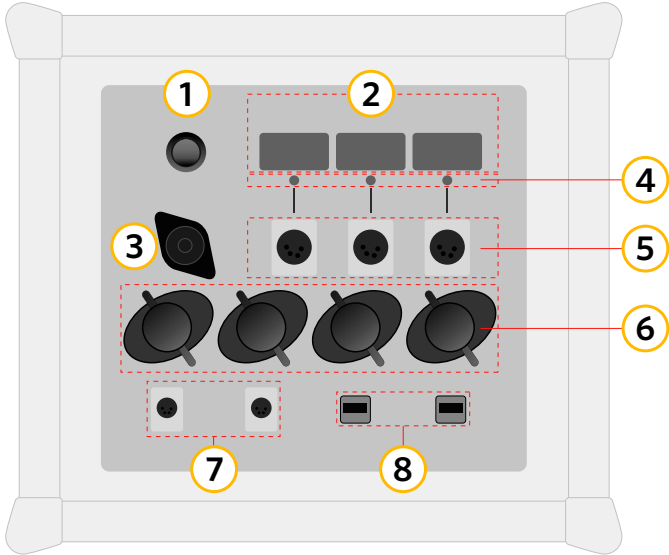


Front panel & outlets overview

- 1 Main power switch
- 2 Voltage indicators
- 3 Fuse
- 4 Voltage regulators
- 5 Three independent precisely regulated and securely protected XLR power outlets at 1.5V – 12V, max 3A per channel
- 6 Four cigarette lighter plug sockets at 12V. max current is 10A per channel
- 7 Two independent, securely protected DSLR mini-XLR outlets for Canon DSLRs and other cameras operating at 8.2V, max 2A per channel
- 8 Two USB power outlets at 5V, max 2A per channel

XLR power outlet pins:

- 1 Ground
- 2 None
- 3 Voltage
- 4 None



3. Setting up and using the device

Follow the instructions below to setup the device for basic operation.

3.1 Using the device for the first time

- 1 Unpack DitoGear™ PowerBox 75 and remove protective caps and bubble wraps. Be careful not to use any sharp device in order not to scratch the surface of the equipment.
- 2 Charge the battery as described below.
- 3 After charging is complete you may start using the device.

3.2 Charging

- 1 The full charging time of the kit battery is about 24h.
- 2 To charge the battery connect the AC/DC power adapter. The system works either with 110V or 230V standards and detects the standard automatically.

3.3 Setting up the device

- 1 Use main power switch (4) to turn the PowerBox on.
- 2 Press the button (x) to highlight the display.
- 3 Push the button once again and hold it for 4 seconds while the display is highlighted.
- 4 Select the battery type from the menu by pressing the button. An arrow on the side indicates the chosen battery type.
- 5 Wait 5 sec to display an adjustment of the battery capacity.
- 6 Press the button to increase the battery capacity (from 1Ah to 99Ah)
- 7 When the capacity is configured - wait another 5 sec to save the settings.
- 8 On the display appears: the battery status, current draw and the remaining battery time.

From now the settings are stored in memory even when disconnected from power.

3.4 Using regulated outlets

- 1 To adjust the voltage on a regulated channel use a small screwdriver and turn the adjustment knob left or right.
- 2 Make sure not to do it while your device is connected to the battery - if you increase the voltage too much, your accessory may get damaged.
- 3 Always make sure that you set proper voltage level for your auxiliary device. DitoGear™ is not responsible for any damage to your equipment caused by setting an excessive voltage.
- 4 Outlets are regulated with the precision of 0.1 V

3.5 Low battery level warning

- 1

Most of 12V batteries have a low voltage operating limit. When you discharge the battery below that limit, the irreversible chemical processes occur and the recharging performance can be affected. It is recommended not to fully discharge the battery.
- 2

The DitoGear™ PowerBox 75 has a low voltage level detection system and when the voltage drops below a specific threshold, a warning beep sound will be heard.

The voltage threshold depends on the type of battery:

A) Gel type battery:
10.5V-10V - intermittent beep sound
below 10V - continuous beep sound

B) Li ion battery:
9.5V-9V - intermittent beep sound
below 9V - continuous beep sound

You can decide to ignore the warning beep sound and continue work, but further operation may degrade your battery performance. It is recommended to stop the work and recharge the battery.

- 3

A lead acid battery will self-discharge slowly over time. Leaving the battery for more than 3 months without recharging may result in damage. Remember to recharge the battery at least every 3 months.

4. Conservation guidelines

While not in use DitoGear™ PowerBox 75 should be stored in a dry place, at ambient temperature around 10 - 25°C, in vertical position (LCD Readout on the top).

5. The kit contents

DitoGear™ PowerBox 75 comes as a main unit with the AC power cable included. Adapters to match client’s electricity standards may be included. There are no cables to power your devices in the kit.

6. Technical specifications table

Battery type (if included)	VIPOW LP75-12, 12V, 75Ah, lead-acid gel type battery
Max current draw:	~25A @ 12V (total)
Battery dimensions:	260 x 168 x 221 mm
Unit dimensions:	300 x 300 x 340 mm
Battery weight:	22.75 kg (50 lbs)
Total unit weight:	~25kg (55 lbs)
Battery terminal height:	19mm
Main fuse:	25A
Power input	110/220V AC Power
Power output	1 - 12V fixed or regulated depending on outlet

7. Using 3rd party power adapters

DitoGear recommends using original DitoGear™ AC/DC power adpaters and batteries.
While using a 3rd party adapter make sure it meets the requirements detailed in technical specifications table.

Caution!
DitoGear is not responsible for any damage or failures caused by the use of a 3rd party power supply adapter.

8. Using DitoGear™ Power Packs

DitoGear™ Power Pack 7Ah/14Ah and DitoGear™ PowerBox include gel type lead acid batteries, that have a low voltage operating limit. When you discharge the battery below that limit, the irreversible chemical processes occur and the recharging performance can be affected. It is recommended not to fully discharge the battery.

The lead acid battery will self-discharge slowly over time. Leaving the battery for more than 3 months without recharging may result in damage. Remember to recharge the battery at least every 3 months.

9. Obtaining Support

In case of any technical issues that can't be solved by carefully reading the manuals do not hesitate to contact us at support@ditogear.com

10. Limited Warranty

DitoGear One (1) Year Limited Warranty
For DitoGear Products Only

Consumer rights and restrictions.

For consumers, who are covered by consumer protection laws or regulations in their country of purchase or, if different, their country of residence, the benefits conferred by this warranty are in addition to all rights and remedies conveyed by such consumer protection laws and regulations. This warranty does not exclude, limit or suspend any rights of consumers arising out of non-conformity with a sales contract. However, as described below, DitoGear disclaims statutory and implied warranties to the extent permitted by law, and in so far as such warranties cannot be disclaimed, all such warranties shall to the extent permitted by law be limited in duration to the duration of the express warranty described below and to the repair or replacement service as determined by DitoGear in its sole discretion. Some states (countries and provinces) do not allow limitations on how long an implied warranty or condition may last, so the limitations described above may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state (or by country or province). This limited warranty is governed by and construed under the laws of the country in which the product purchase took place. DitoGear, the warrantor, under this limited warranty stands for DitoGear™ Robert Paluch, ul.Krańcowa 30, 62-002 Suchy Las, Poland.

Warranty.

DitoGear’s warranty obligations for this hardware product are limited to the terms set forth herein. DitoGear warrants this DitoGear-branded hardware product against defects in materials and workmanship under normal use for a period of one (1) year from the date of retail purchase by the original end-user purchaser (“Warranty Period”). If a hardware defect arises and a valid claim is received within the Warranty Period, at its option and to the extent permitted by law, DitoGear will either (1) repair the hardware defect at no charge, using new or refurbished parts that are equivalent to new in performance and reliability, (2) exchange the product with a product that is new or refurbished that is equivalent to new in performance and reliability and is at least functionally equivalent to the original product, or (3) refund the purchase price of the product. DitoGear may request that you replace defective parts with user-installable new or refurbished parts that DitoGear provides in fulfillment of its warranty obligation.

A replacement product or part, including a user-installable part that has been installed in accordance with instructions provided by DitoGear, assumes the remaining warranty of the original product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage for you.

When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes DitoGear’s property. Parts provided by DitoGear in fulfillment of its warranty obligation must be used in products for which warranty service is claimed. When a refund is given, the product for which the refund is provided must be returned to DitoGear and becomes DitoGear’s property.

Exclusions and limitations.

To the extent permitted by law, this warranty and the remedies set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral, written, statutory, express or implied. As permitted by applicable law, DitoGear specifically disclaims any and all statutory or implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose and warranties against hidden or latent defects. If DitoGear cannot lawfully disclaim statutory or implied warranties then to the extent permitted by law, all such warranties shall be limited in duration to the duration of the express warranty and to the repair or replacement service as determined by DitoGear in its sole discretion. Some states (countries and provinces) do not allow limitations on how long an implied warranty or condition may last, so the limitations described above may not apply to you. No DitoGear reseller, agent, or employee is authorized to make any modification, extension, or addition to this warranty. If any term is held to be illegal or unenforceable, the legality or enforceability of the remaining terms shall not be affected or impaired.

This Limited Warranty applies only to hardware products manufactured by or for DitoGear. The Limited Warranty does not apply to any non-DitoGear hardware products even if packaged or sold with DitoGear hardware. Manufacturers or suppliers, other than DitoGear, may provide their own warranties to the end user purchaser, but DitoGear, in so far as permitted by law, provides their products “as is”.

DitoGear does not warrant that the operation of the product will be uninterrupted or error-free. DitoGear is not responsible for damage arising from failure to follow instructions relating to the product’s use.

This warranty does not apply: (a) to consumable parts, such as batteries, unless damage has occurred due to a defect in materials or workmanship; (b) to cosmetic damage, including but not limited to scratches, dents and broken elements on ports; (c) to damage caused by use with non-DitoGear products; (d) to damage caused by accident, abuse, misuse, liquid contact, fire, earthquake or other external causes; (e) to damage caused by operating the product outside the permitted or intended uses described by DitoGear; (f) to damage caused by service (including upgrades and expansions) performed by anyone who is not a representative of DitoGear; (g) to a product or part that has been modified to alter functionality or capability without the written permission of DitoGear; (h) to defects caused by normal wear and tear or otherwise due to the normal aging of the product.

Except as provided in this warranty and to the extent permitted by law, DitoGear is not responsible for direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory, including but not limited to loss of use; loss of revenue; loss of actual or anticipated profits (including loss of profits on contracts); loss of the use of money; loss of anticipated savings; loss of business; loss of Opportunity; loss of goodwill; loss of reputation; loss of, damage to or any indirect or consequential loss or damage howsoever caused including the replacement of equipment and property. The foregoing limitation shall not apply to death or personal injury claims, or any statutory liability for intentional and gross negligent acts and/or omissions. Some states (countries and provinces) do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Obtaining warranty service.

DitoGear will provide warranty service either (i) at an DitoGear Retail or DitoGear Authorized Service Provider (“ASP”) location, where service is performed at the location, or the DitoGear Retail or ASP may send the product to an DitoGear repair service location for service, (ii) by sending you prepaid way bills (and if you no longer have the original packaging, DitoGear may send you packaging material) to enable you to ship the product to DitoGear’s repair service location for service, or (iii) by sending you customer installable new or refurbished replacement product or parts to enable you to service or exchange your own product (“DIY Service”). Upon receipt of the replacement product or part, the original product or part becomes the property of DitoGear and you agree to follow instructions, including, if required, arranging the return of original product or part to DitoGear in a timely manner. When providing DIY Service requiring the return of the original product or part, DitoGear may require a credit card authorization as security for the retail price of the replacement product or part and applicable shipping costs. If you follow instructions, DitoGear will cancel the credit card authorization, so you will not be charged for the product or part and shipping costs.

If you fail to return the replaced product or part as instructed or the replaced product or part is not eligible for warranty service, DitoGear will charge the credit card for the authorized amount.

Please access and review the online help resources at the DitoGear website (www.ditogear.com) and contained in the product manual before requesting warranty service. If the product is still not functioning properly after making use of these resources, please contact DitoGear at support@ditogear.com.

Service options, parts availability and response times may vary according to the country in which service is requested. Service options are subject to change at any time. You may be responsible for shipping and handling charges if the product cannot be serviced in the country in which service is requested. If you seek service in a country that is not the country of purchase, you will comply with all applicable import and export laws and regulations and be responsible for all custom duties, VAT. and other associated taxes and charges. For international service, DitoGear may repair or exchange defective products and parts with comparable products and parts that comply with local standards. In accordance with applicable law, DitoGear may require that you furnish proof of purchase details before receiving warranty service.

11. Privacy

DitoGear will maintain and use customer information in accordance with the DitoGear Customer Privacy Policy available at ditogear.com/legal/privacy-policy/.

12. Miscellaneous

Trademarks and copyrights

DitoGear™, DitoGear™ OmniController, DitoGear™ Evolution, DitoGear™ Trito , DitoGear™ OmniSlider, DitoGear™ OmniHead and DitoGear™ LensDrive, DitoGear™ Modulo are trademarks of Dito Gear Robert Paluch ul.Krańcowa 30, 62-002 Suchy Las, Poland. Unauthorised use is strictly prohibited. All other trademarks referenced in this manual are used only for informative purposes and are property of their respective owners.

Disposal and recycling information

The device and all batteries included with it must be disposed of properly according to local laws and regulations. The product must be disposed of separately from the household waste. When your product reaches its end of life, contact DitoGear or your local authorities to learn about recycling options.



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